

Title (en)
SOLAR THERMAL POWER SYSTEM

Title (de)
INSTALLATION THERMIQUE SOLAIRE

Title (fr)
SOLARTHERMISCHES KRAFTWERK

Publication
EP 3051129 A1 20160803 (EN)

Application
EP 16153323 A 20160129

Priority
US 201514609761 A 20150130

Abstract (en)
A solar thermal power system includes a solar receiver for heating thermal energy storage fluid and be stored and utilised from a thermal energy storage arrangement having hot and cold storage tanks. The system includes a steam generator arrangement, which utilises the heat of the thermal energy storage fluid to produces steam to run a turbine. The arrangement includes a bypass line configured to bypass the hot storage tank from the steam generator arrangement, and to supply the hot thermal energy storage fluid from the solar receiver directly to the steam generator arrangement , during day times, when the solar receiver the steam generator arrangement are both in operating mode, thereby recovering stored potential energy available in the down corner hot thermal energy storage fluid from the solar receiver.

IPC 8 full level
F03G 6/06 (2006.01); **F24S 20/20** (2018.01)

CPC (source: CN EP US)
F01D 15/10 (2013.01 - CN); **F01K 13/00** (2013.01 - US); **F03G 6/06** (2013.01 - CN); **F03G 6/067** (2013.01 - EP US);
F24S 60/30 (2018.04 - EP US); **F24S 2020/10** (2018.04 - EP US); **Y02E 10/46** (2013.01 - EP US)

Citation (search report)
• [X] US 2014116048 A1 20140501 - LI HENG-YI [TW], et al
• [A] US 2014194539 A1 20140710 - HAMMAD AHMAD D [SA], et al
• [A] US 2011127773 A1 20110602 - FREUND SEBASTIAN WALTER [DE], et al
• [A] US 2015000277 A1 20150101 - REYNOLDS GLENN A [US]

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 3051129 A1 20160803; EP 3051129 B1 20180314; CN 105840440 A 20160810; CN 105840440 B 20200825; ES 2664853 T3 20180423;
MA 38820 A1 20161130; MA 38820 B2 20180928; TN 2016000009 A1 20170705; US 2016222948 A1 20160804; US 9695805 B2 20170704

DOCDB simple family (application)
EP 16153323 A 20160129; CN 201610061997 A 20160129; ES 16153323 T 20160129; MA 38820 A 20160129; TN 2016000009 A 20160108;
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